

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US06/17153

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC: B01D 53/14( 2006.01),53/34( 2006.01)

USPC: 96/271,322;261/115;422/169

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 96/243, 267, 271, 322; 261/115; 422/168, 169; 95/235; 423/242.1, 243.01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,110,088 A (COLD et al) 29 August 1978 (29.08.1978), figure 1, col. 2, line 49 to col. 3, line 12	1, 6, 7
X	US 5,154,734 A (YUNG) 13 October 1992 (13.10.1992), figure 1, col. 4, line 31 to col. 6, line 46	1,4, 6, 7
A	US 4,127,621 A (BERST et al) 28 November 1978 (28.11.1978)	1-10
A	US 2004/0011200 A1 (GOODE et al) 22 January 2004 (22.01.2004)	1-10
A	US 6,695,018 B2 (JOHNSON et al) 24 February 2004 (24.02.2004)	1-10
A	GB 2050325 A (RESEARCH-COTTREL INC) 07 January 1981 (07.01.1981)	1-10

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with this application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

22 August 2006 (22.08.2006)

Date of mailing of the international search report

10 OCT 2006

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Continuation of B. FIELDS SEARCHED Item 3:  
DERWENT  
search terms: quench, desulfurization